

Title (en)
LIGHT GUIDE AND ASSOCIATED LIGHT ASSEMBLIES

Title (de)
LICHTLEITER UND ZUGEHÖRIGE LICHTANORDNUNGEN

Title (fr)
GUIDE DE LUMIÈRE ET ENSEMBLES LUMINEUX ASSOCIÉS

Publication
EP 2828691 A2 20150128 (EN)

Application
EP 13711551 A 20130314

Priority
• US 201261613118 P 20120320
• US 2013031259 W 20130314

Abstract (en)
[origin: WO2013142243A2] A light guide has a transmission of greater than 90 percent, a refractive index greater than 1.4, and less than 10 haze percent. The light guide also includes an organosiloxane block copolymer having a weight average molecular weight of at least 20,000 g/mole. The organosiloxane block copolymer includes 40 to 90 mole percent disiloxy units of the formula $[R1\ 2SiO2/2]$ arranged in linear blocks each having an average of from 10 to 400 disiloxy units $[R1\ 2SiO2/2]$ per linear block, 10 to 60 mole percent trisiloxy units of the formula $[R2SiO3/2]$ arranged in non-linear blocks each having a weight average molecular weight of at least 500 g/mol, and 0.5 to 25 mole percent silanol groups $[=SiOH]$. R1 is independently a C1 to C30 hydrocarbyl and R2 is independently a C1 to C20 hydrocarbyl. Moreover, at least 30% of the non-linear blocks are crosslinked with another non-linear block and aggregated in nano-domains.

IPC 8 full level
G02B 1/04 (2006.01)

CPC (source: EP US)
C08G 77/42 (2013.01 - US); **G02B 1/045** (2013.01 - EP US); **G02B 1/046** (2013.01 - US); **G02B 6/0096** (2013.01 - US);
G02B 6/0006 (2013.01 - EP US); **G02B 6/0008** (2013.01 - EP US)

Citation (search report)
See references of WO 2013142243A2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2013142243 A2 20130926; WO 2013142243 A3 20140306; CN 104204862 A 20141210; CN 104204862 B 20180427;
EP 2828691 A2 20150128; JP 2015512555 A 20150427; JP 5981635 B2 20160831; KR 102063029 B1 20200211; KR 20140138311 A 20141203;
TW 201403111 A 20140116; TW I625540 B 20180601; US 2015043241 A1 20150212; US 8995814 B2 20150331

DOCDB simple family (application)
US 2013031259 W 20130314; CN 201380014205 A 20130314; EP 13711551 A 20130314; JP 2015501772 A 20130314;
KR 20147029196 A 20130314; TW 102109579 A 20130319; US 201314381605 A 20130314